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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,612A

DATE: 12/11/2002

TIME: 10:43:20

Input Set : A:\p02327.app

Output Set: N:\CRF4\02112003\J045612A.raw

3 <110> APPLICANT: Gramajo, Hugo C  
 4 Rodriguez, Eduardo J  
 6 <120> TITLE OF INVENTION: Antibiotic Production II  
 8 <130> FILE REFERENCE: C886-P02327US1  
 10 <140> CURRENT APPLICATION NUMBER: US 10/045,612A  
 11 <141> CURRENT FILING DATE: 2001-10-23  
 13 <150> PRIOR APPLICATION NUMBER: US 60/242,543  
 14 <151> PRIOR FILING DATE: 2000-10-23  
 16 <160> NUMBER OF SEQ ID NOS: 32  
 18 <170> SOFTWARE: PatentIn version 3.0  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 29  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Artificial  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Synthetic oligonucleotide  
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 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Artificial  
 37 <220> FEATURE:  
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 47 <213> ORGANISM: Artificial  
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 52 <400> SEQUENCE: 3  
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 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artificial  
 59 <220> FEATURE:  
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 63 cagaattcga tgcgctcgtg ctactggtc 24  
 65 <210> SEQ ID NO: 5

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,612A

DATE: 02/11/2003

TIME: 10:43:20

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Output Set: N:\CRF4\02112003\J045612A.raw

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 71 <213> ORGANISM: Artificial  
 72 <220> FEATURE:  
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 83 <213> ORGANISM: Artificial  
 85 <220> FEATURE:  
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 95 <213> ORGANISM: Artificial  
 97 <220> FEATURE:  
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 100 <400> SEQUENCE: 7  
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 106 <212> TYPE: DNA  
 107 <213> ORGANISM: Artificial  
 109 <220> FEATURE:  
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 112 <400> SEQUENCE: 8  
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 119 <213> ORGANISM: Artificial  
 121 <220> FEATURE:  
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 130 <212> TYPE: DNA  
 131 <213> ORGANISM: Artificial  
 133 <220> FEATURE:  
 134 <223> OTHER INFORMATION: Synthetic oligonucleotide  
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 137 gatttcttga tctaggat 30  
 140 <210> SEQ ID NO: 11  
 141 <211> LENGTH: 21

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,612A

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Input Set : A:\p02327.app

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142 <212> TYPE: DNA
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153 <211> LENGTH: 21
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial
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164 <210> SEQ ID NO: 13
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166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial
169 <220> FEATURE:
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176 <210> SEQ ID NO: 14
177 <211> LENGTH: 21
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial
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184 <400> SEQUENCE: 14
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189 <211> LENGTH: 21
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Synthetic oligonucleotide
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200 <210> SEQ ID NO: 16
201 <211> LENGTH: 31
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205 <220> FEATURE:
206 <223> OTHER INFORMATION: Synthetic oligonucleotide
208 <400> SEQUENCE: 17
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212 <210> SEQ ID NO: 17
213 <211> LENGTH: 31
214 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,612A

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Input Set : A:\p02327.app

Output Set: N:\CRF4\02112003\J045612A.raw

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225 <211> LENGTH: 120
226 <212> TYPE: DNA
227 <213> ORGANISM: Streptomyces coelicolor
229 <400> SEQUENCE: 18
230 aaacggggccg qagactgtac ggagtcgacg gctcgcaatc attgctcggc ttcgtagagt          60
232 cgtacatga cgtttttgga tgaggcgccg ggcgagccga cggacgcgcg cgggcgggtg          120
235 <210> SEQ ID NO: 19
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238 <213> ORGANISM: Streptomyces coelicolor
240 <400> SEQUENCE: 19
241 caccggcccg cgcgcgtccg tcggctcgcc cggcgccca tccaaaacgg tcatgtagcg          60
243 actctacgaa gcgagcaug gatggcgagc cgtcgactcc gtacagtctc cggcccggtt          120
246 <210> SEQ ID NO: 20
247 <211> LENGTH: 18
248 <212> TYPE: PRF
249 <213> ORGANISM: Streptomyces coelicolor
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252 Met Thr Val Leu Asy Gly Ala Tr Gly Thr Leu Thr Asy Ala Arg Gly
254 1          5          10          15
256 Arg Val
259 <210> SEQ ID NO: 21
260 <211> LENGTH: 240
261 <212> TYPE: DNA
262 <213> ORGANISM: Streptomyces coelicolor
264 <400> SEQUENCE: 21
265 cagccatgtc tcacgagccg gtaacccgg ggcaaccgag aacgggacgg ccccttcggg          60
267 cactgggtcc gtcgcgcgcg gggggcggtt gattaccgag ggaaggacgg gcggtgaat          120
269 accggccgat agttttgag catgaatgt cggacagag cggcgtgaat tccaaacgtt          180
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280 ccccaaaadaa aacccgtacc ccccaacaa accctacaa aaccttacc ucaagadaa          60
282 gctagggttt ccccaagga tccctggtac cccctacta caggaatct cgggcgtgga          120
284 ggaacatgag aataatctt ccttcttga ggttccat tcttcttga tcttcttga          180
286 ggttcttga tcttcttga tcttcttga tcttcttga tcttcttga tcttcttga          240
290 <211> LENGTH: 4
291 <212> TYPE: PRF
292 <213> ORGANISM: Streptomyces coelicolor

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,612A

DATE: 02/11/2003

TIME: 10:43:20

Input Set : A:\p02327.app

Output Set : N:\CRF4\02112003\J045612A.raw

294 &lt;400&gt; SEQUENCE: 23

296 Val Arg Val Lys

297 1

299 &lt;210&gt; SEQ ID NO: 24

300 &lt;211&gt; LENGTH: 968

301 &lt;212&gt; TYPE: DNA

302 &lt;213&gt; ORGANISM: Streptomyces coelicolor

304 &lt;400&gt; SEQUENCE: 24

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305 tattctagac atatgaccgt tttaggatgag gcgcgcgggcg agccgacgga cgcgcgcggg      60
307 cgggtggccg agctgcacgg gatccgtgca gcgcgcgcgcg ccgggcccag tgagaaggcg      120
309 acggcggcgc agcaccgcaa gggcaagctg acggcacgtg agcccatcga gctgctctctg      180
311 gaccccggtt ccttcccgga ggtcagacag ctgcgcgcgcg accggggagc cgggttcggc      240
313 ctggaggcca agaagccgta caccgacgtt gtcacacccg gctggggcac ggtcagaggc      300
315 cgcacgggtt tctctcagc ccacgacttc cgggtcttcg gcggcgagct gggcagaggc      360
317 cgcgcacga agatccacaa gatcatggac atggccatcg cggcggtgac cccgtggtg      420
319 tctctgacg acacggcgcg cgcgcgctac caggagggcg tcagcgagct cgcggggtag      480
321 ggcggcatct tccagcgcaa caccagggcg tccggcgta tcccccacat cagcgtgatg      540
323 ctgcgcctt gcgcggggcg cgcggcctac agcccccgc tccacgaatt cgtcttcctg      600
325 gtcgcgcaca cctcgcagat gttcatcacg gcgcgcgacg tcgtcaagga ggtcacccgc      660
327 gaggagatca cgcagaacgg tctggggcgc gcgcacgtgc acgcgcagac gtcggcggtg      720
329 tgcacttcg cctacgacga cagaggagac tgccctgcgc aggtccgcta cctcctctcc      780
331 ctctcccgcc agaacaaccc ggagaacccc cccgcgcgcg agtctctcga ccccgtagac      840
333 cgcgcctagg acacccctct cgcgcctggtt cggcgcgagc gcacccgccc gtagcagatg      900
335 accaaggtca tcgagggaact cctcgaacag agcgactacc tggaggtcca cgcgcgttgt      960
337 ctacggt

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340 &lt;210&gt; SEQ ID NO: 25

341 &lt;211&gt; LENGTH: 590

342 &lt;212&gt; TYPE: PRT

343 &lt;213&gt; ORGANISM: Streptomyces coelicolor

345 &lt;400&gt; SEQUENCE: 25

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347 Val Arg Lys Val Leu Ile Ala Asn Arg Gly Glu Ile Ala Val Arg Val
348 1 5 10 15
350 Ala Arg Ala Cys Arg Asp Ala Gly Ile Ala Ser Val Ala Val Tyr Ala
351 20 25 30
353 Asp Phe Asp Arg Asp Ala Leu His Val Arg Ala Ala Asp Glu Ala Phe
354 35 40 45
356 Ala Leu Gly Gly Asp Thr Ile Ala Thr Ser Tyr Leu Asp Ile Ala Lys
357 50 55 60
359 Val Leu Lys Ala Ala Arg Glu Ser Gly Ala Asp Ala Ile His Pro Gly
360 65 70 75 80
362 Tyr Gly Phe Leu Ser Glu Asn Ala Glu Phe Ala Gln Ala Val Leu Asp
363 85 90 95
365 Ala Gly Leu Phe Thr Ile Asp Pro Pro Pro His Ala Ile Arg Arg Arg
366 100 105 110
368 Ala Thr Thr Thr Ala Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
369 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200
371 Leu Val Ala Gly Thr Thr Asp Thr Val Ser Gly Ala Asp Glu Val Val
372 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300
374 Ala Phe Ala Lys Gln His Gly Leu Pro Ile Ala Ile Lys Ala Ala Phe

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/045,612A

DATE: 02/11/2003  
TIME: 10:43:21

Input Set : A:\p02327.app  
Output Set: N:\CRF4\02112003\J045612A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/045,612A

DATE: 02/11/2003

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Input Set : A:\p02327.app

Output Set: N:\CRF4\02112003\J045612A.raw